

## CLAIMS

1. A nanocarbon producing apparatus comprising:
  - a graphite target;
  - a chamber which accommodates said graphite target;
  - a window unit which is provided in a part of said chamber;
  - 5 a light source which irradiates light onto a surface of said graphite target through said window unit;
  - a recovery unit which recovers a nanocarbon generated from carbon vapor, said carbon vapor being vaporized from said graphite target by said light irradiation; and
  - 10 a shielding member which is located between said window unit and said graphite target.
2. The nanocarbon producing apparatus as claimed in claim 1, comprising an optical member between said window unit and said shielding member, said optical member introducing said light to said surface of said graphite target.
3. The nanocarbon producing apparatus as claimed in claims 1 or 2,
  - wherein said optical member includes a reflecting member.
4. A nanocarbon producing apparatus comprising:
  - a graphite target;
  - a chamber which accommodates said graphite target;
  - a window unit which is provided in a part of said chamber;

5           a light source which irradiates light onto a surface of said graphite target through said window unit;

          a recovery unit which recovers a nanocarbon generated from carbon vapor, said carbon vapor being vaporized from said graphite target by said light irradiation; and

10          a reflecting member which reflects transmitted light transmitted through said window to introduce the transmitted light to said surface of said graphite target.

5.       The nanocarbon producing apparatus as claimed in claim 4, further comprising a shielding member located between said reflecting member and said graphite target.

6.       The nanocarbon producing apparatus as claimed in any one of claims 3 to 5,

          wherein said reflecting member has a light focusing function.

7.       The nanocarbon producing apparatus as claimed in any one of claims 3 to 6,

          wherein said reflecting member is a parabolic mirror.

8.       The nanocarbon producing apparatus as claimed in any one of claims 1 to 7, comprising target holding unit which rotates said graphite target having a cylindrical shape around an central axis while holding the graphite target.

9.       The nanocarbon producing apparatus as claimed in any one of

claims 1 to 8,

wherein said nanocarbon is a carbon nanohorn assembly.